



## 200 & 300 SERIES

### Service and Installation Manual

Please read this manual completely before attempting to install or operate this equipment!  
Notify carrier of damage! Inspect all components immediately.



**Drop In and Undercounter Products**



CAUTION

**Important Information  
Read Before Use  
Please Save These Instructions!**

February 2013



## Important Warning And Safety Information



WARNING

Read This Manual Thoroughly Before Operating, Installing, Or Performing Maintenance On The Equipment.



WARNING

Failure To Follow Instructions In This Manual Can Cause Property Damage, Injury Or Death.



WARNING

Do Not Store Or Use Gasoline Or Other Flammable Vapors Or Liquids In The Vicinity Of This Or Any Other Appliance.



WARNING

Unless All Cover And Access Panels Are In Place And Properly Secured, Do Not Operate This Equipment.



WARNING

This Appliance Is Not Intended For Use By Persons Who Lack Experience Or Knowledge, Unless They Have Been Given Supervision Or Instruction Concerning Use Of The Appliance By A Person Responsible For Their Safety.



WARNING

This Appliance Is Not To Be Played With.



WARNING

Do Not Clean With Water Jet.



WARNING

Do Not Use Electrical Appliances Inside The Food Storage Compartment Of This Appliance.



CAUTION

Observe the following:

- Minimum clearances must be maintained from all walls and combustible materials.
- Keep the equipment area free and clear of combustible material.
- Allow adequate clearance for air openings.
- Operate equipment only on the type of electricity indicated on the specification plate.
- Unplug the unit before making any repairs.
- Retain this manual for future reference.

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## Receiving And Inspecting The Equipment

Even though most equipment is shipped packaged, care should be taken during unloading so the equipment is not damaged while being moved into the building.

1. Visually inspect the exterior of the package and skid or container. Any damage should be noted and reported to the delivering carrier immediately.
2. If damaged, open and inspect the contents with the carrier.
3. In the event that the exterior is not damaged, yet upon opening, there is concealed damage to the equipment
4. notify the carrier. Notification should be made verbally as well as in written form.
4. Request an inspection by the shipping company of the damaged equipment. This should be done within 10 days from receipt of the equipment.
5. Visually inspect the refrigeration package. Be sure lines are secure and base is still intact.
6. Freight carriers can supply the necessary damage forms upon request.
7. Retain all crating material until an inspection has been made or waived.

## Serial Number Information

| Models                        | Serial Tag Location                                     |
|-------------------------------|---|
| N225, N227                    | On the compressor stand next to the temperature control |
| 203, 204, 204P, 248, 250, 305 | On the bottom of the ice chests                         |
| 240                           | On the back   |
| 242                           | On the bottom of the sink                               |
| 307                           | Underneath the top                                      |

Always have the serial number of your unit available when calling for parts or service.

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## Warranty Information

Visit [http://www.delfield.com/minisite/service/warranty\\_info](http://www.delfield.com/minisite/service/warranty_info) to:

- Register your product for warranty.
- Verify warranty information.
- View and download a copy of your warranty.

## Regulatory Certifications

All Models are certified by:



Electrical models are also certified by:



# Specifications

| MODEL   | L                                    | D                  | H                  | SHIP WEIGHT        | CUTOUT SIZE                          | CABINET CAPACITY                     | H.P.            | AMP | VOLT | NEMA PLUG | DESIGN LOAD BTU | SYSTEM CAP. BTU | EVAP BTU/ TD/TEMP |
|---|--------------------------------------|--------------------|--------------------|--------------------|--------------------------------------|--------------------------------------|-----------------|-----|------|-----------|-----------------|-----------------|-------------------|
| <b>DROP-IN FREEZERS</b>                                   |                                      |                    |                    |                    |                                      |                                      |                 |     |      |           |                 |                 |                   |
| <b>N225</b>   | 16.56"<br>(42.1cm)                   | 27.87"<br>(70.8cm) | 26.75"<br>(67.9cm) | 115lbs<br>(52kg)   | 25.75" x 14.62"<br>(65.4cm x 37.1cm) | 6 gal.                               | 1/5             | 5.3 | 115  | 5-15P     | 292             | 411             | 20/20°/-23°       |
| <b>N227</b>   | 30"<br>(76.2cm)                      | 27.87"<br>(70.8cm) | 26.75"<br>(67.9cm) | 191lbs<br>(87kg)   | 25.75" x 28.00"<br>(65.4cm x 71.1cm) | 12 gal.                              | 1/5             | 5.3 | 115  | 5-15P     | 473             | 532             | 28/19°/-22        |
| <b>DROP-IN FREEZERS WITH LEXAN® LID</b>                   |                                      |                    |                    |                    |                                      |                                      |                 |     |      |           |                 |                 |                   |
| <b>N225L</b>  | 16.56"<br>(42.1cm)                   | 27.87"<br>(70.8cm) | 26.75"<br>(67.9cm) | 115lbs<br>(52kg)   | 25.75" x 14.62"<br>(65.4cm x 37.1cm) | 6 gal.                               | 1/5             | 5.3 | 115  | 5-15P     | 292             | 411             | 20/20°/-23°       |
| <b>N227L</b>  | 30"<br>(76.2cm)                      | 27.87"<br>(70.8cm) | 26.75"<br>(67.9cm) | 191lbs<br>(87kg)   | 25.75" x 28.00"<br>(65.4cm x 71.1cm) | 12 gal.                              | 1/5             | 5.3 | 115  | 5-15P     | 473             | 532             | 28/19°/-22        |
| <b>DROP-IN WATER STATIONS AND ICE STORAGE</b>             |                                      |                    |                    |                    |                                      |                                      |                 |     |      |           |                 |                 |                   |
| <b>203</b>  | ice chest                            | 20.25"<br>(51.4cm) | 20.25"<br>(51.4cm) | 23.25"<br>(59.1cm) | 52lbs<br>(24kg)                      | 19.25" x 19.25"<br>(48.9cm x 48.9cm) | 90lbs<br>(41kg) | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |
| <b>204</b>  | water and ice station                | 24"<br>(61.0cm)    | 21"<br>(53.3cm)    | 23.5"<br>(59.1cm)  | 47.5lbs<br>(22kg)                    | 21" x 17.75"<br>(53.3cm x 45.1cm)    | 45lbs<br>(20kg) | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |
| <b>204P</b>   | water and ice station                | 24"<br>(61.0cm)    | 21"<br>(53.3cm)    | 27"<br>(68.6cm)    | 47.5lbs<br>(22kg)                    | 21" x 17.75"<br>(53.3cm x 45.1cm)    | 45lbs<br>(20kg) | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |
| <b>240</b>  | ice chest with cover                 | 21"<br>(53.3cm)    | 17.5"<br>(44.5cm)  | 17"<br>(43.2cm)    | 36lbs<br>(16kg)                      | —                                    | 75lbs<br>(34kg) | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |
| <b>248</b>  | water and ice station                | 31"<br>(78.7cm)    | 15"<br>(38.1cm)    | 22.5"<br>(57.2cm)  | 28lbs<br>(13kg)                      | 28" x 12.5"<br>(71.1cm x 31.8cm)     | 45lbs<br>(20kg) | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |
| <b>305</b>  | ice chest with cover                 | 21.25"<br>(54.0cm) | 15.25"<br>(38.7cm) | 13"<br>(33.0cm)    | 18lbs<br>(8kg)                       | 12.5" x 17.75"<br>(31.8cm x 45.1cm)  | 45lbs<br>(20kg) | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |
| <b>307</b>  | glass filler                         | 12"<br>(30.5cm)    | 12"<br>(30.5cm)    | 9.5"<br>(24.1cm)   | 7lbs<br>(3kg)                        | 9.00" x 9.00"<br>(23cm x 23cm)       | —               | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |
| <b>UNDERCOUNTER SINKS, WATER STATIONS AND ICE STORAGE</b> |                                      |                    |                    |                    |                                      |                                      |                 |     |      |           |                 |                 |                   |
| <b>242</b>  | UC sink & faucet                     | 18"<br>(45.7cm)    | 13.5"<br>(34.3cm)  | 12.75"<br>(32.4cm) | 20lbs<br>(9kg)                       | 17" x 12.5"<br>(43.2cm x 31.8cm)     | —               | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |
| <b>250</b>  | UC sink, ice chest and water station | 46"<br>(116.8cm)   | 14.06"<br>(36cm)   | 22.75"<br>(57.8cm) | 81lbs<br>(37kg)                      | 45" x 13"<br>(114.3cm x 33.0cm)      | 45lbs<br>(20kg) | N/A | N/A  | N/A       | N/A             | N/A             | N/A               |

## Installation - Models N225, N225L, N227 And N227L

### Location

Units in this manual are intended for indoor use only. The refrigeration system has been factory tested and should require no further adjustment during installation.

For the most efficient refrigeration, be sure to provide good air circulation inside and outside the unit.

**Outside Cabinet:** Be sure that the unit has access to ample air. Avoid hot corners and locations near stoves and ovens.

### Counter Cutouts

For installation provide a cutout in the counter as shown (see illustration 1 or 2). The counter must be sturdy enough to hold the combined weight up to 300 pounds of the drop-in and the product stored inside.

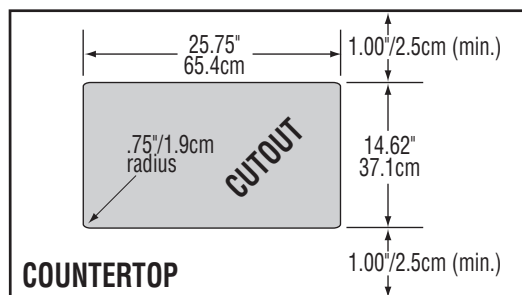


Illustration 1. Model N225 & N225L cutout dimensions

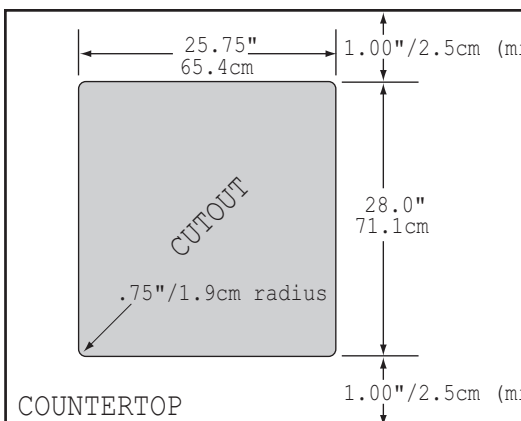
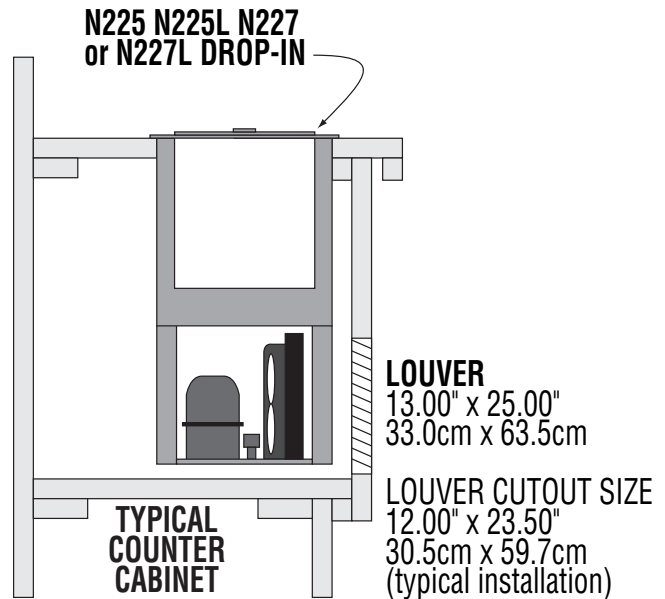


Illustration 2. Model N227 & N227L cutout dimensions



*The louver provided must be installed in front of the condensing unit's finned coil (see illustration 3). A second cutout must be made at the rear or end of the equipment to allow air flow through the unit. No louver is provided for the second cutout. Any restriction to the proper air flow, total or partial, will void the compressor warranty.*



**NOTE:** A second cutout (without louver) must also be made to allow proper air flow.

Illustration 3. N225 N225L N227 & N227L louver installation

### Electrical Connection

Refer to the amperage data, the serial tag, your local code or the National Electrical Code to be sure the unit is connected to the proper power source. A protected circuit of the correct voltage and amperage must be run for connection of the line cord.

If the unit does not operate after it is plugged in, check the thermostat to see if it was inadvertently turned **OFF** during installation.



**The unit must be disconnected from the power source whenever performing service or maintenance functions.**

# Installation - Models 203, 204, 204P, 240, 242, 248, 250, 305 And 307

## Location

Units in this manual are intended for indoor use only.  
Avoid hot corners and locations near stoves and ovens.

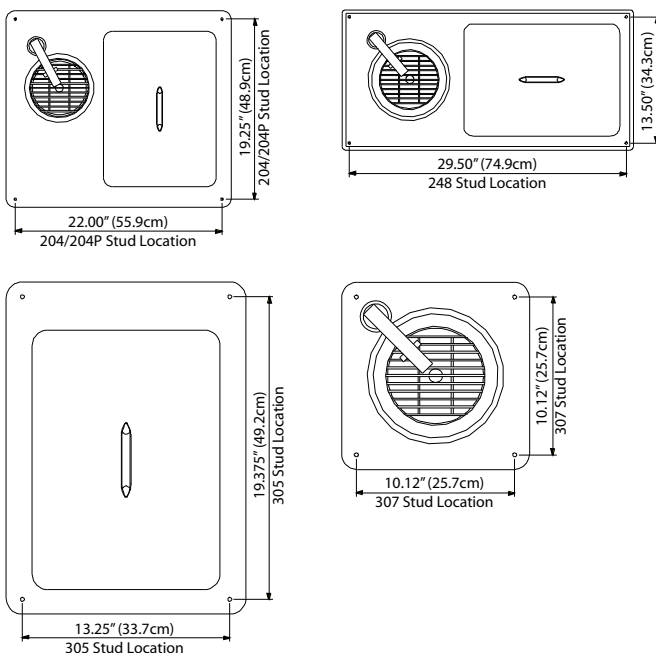
## Counter Cutouts

For installation, provide a cutout in the counter sized according to the chart below. The counter must be sturdy enough to hold the combined weight up to 300 pounds of the drop-in and the product stored inside.

| Model |                                      | Cutout Size                          | Mounting Studs | 1/2" IPS Water Hookup | Drain                |
|-------|--------------------------------------|--------------------------------------|----------------|-----------------------|----------------------|
| 203   | ice chest                            | 19.25" x 19.25"<br>(48.9cm x 48.9cm) | N/A            | N/A                   | (1) 1"               |
| 204   | water and ice station                | 21" x 17.75"<br>(53.3cm x 45.1cm)    | 4              | 1                     | (2) 1"               |
| 204P  | water and ice station                | 21" x 17.75"<br>(53.3cm x 45.1cm)    | 4              | 1                     | (2) 1"               |
| 240   | ice chest with cover                 | N/A                                  | N/A            | N/A                   | (1) 1"               |
| 242   | UC sink & faucet                     | 17" x 12.5"<br>(43.2cm x 31.8cm)     | N/A            | 2                     | (1) 1-1/2"           |
| 248   | water and ice station                | 28" x 12.5"<br>(71.1cm x 31.8cm)     | 4              | 1                     | (2) 1"               |
| 250   | UC sink, ice chest and water station | 45" x 13"<br>(114.3cm x 33.0cm)      | N/A            | 3                     | (2) 1"<br>(1) 1-1/2" |
| 305   | ice chest with cover                 | 12.5" x 17.75"<br>(31.8cm x 45.1cm)  | 4              | N/A                   | (1) 1"               |
| 307   | glass filler                         | 9.00" x 9.00"<br>(23cm x 23cm)       | 4              | 1                     | (1) 1"               |

## Mounting Studs

Equipment with mounting studs are pictured below. Mark the stud locations according to the measurements or place the equipment in the cutout to mark the stud locations. Drill 0.37" (1.0cm) diameter holes through the counter for the studs.



## Drain

Provided 1" (2.5cm) drain, nut and washer must be field installed to an appropriate container or floor drain following local code requirements. Sinks come standard with 1-1/2" basket strainer assemblies.

## Water Connection

All 1/2" (1.3cm) IPS water inlets must be field connected following local code requirements.

## Operation - Models N225, N225L, N227 And N227L

After installation, the unit will begin operating simply by plugging it into the proper outlet. If the unit does not operate after being plugged in, check to see if the thermostat is in the **OFF** position.

The models 225 and 227 are designed to hold frozen products at a temperature range of 5°F to -5°F (-15°C to -21°C). The thermostat is located in the machine compartment.

## Maintenance - Models N225, N225L, N227 And N227L

In order to maintain proper refrigeration performance, the condenser fins must be cleaned of dust, dirt and grease every three months. If conditions are such that the condenser is totally blocked in three months, the frequency of cleaning should be increased.

Clean the condenser with a vacuum cleaner or stiff brush. If extremely dirty, a commercially available condenser cleaner may be required.

Defrosting must be done manually after 3/8" of ice accumulation. To defrost disconnect power to the equipment or turn the thermostat knob to the **OFF** position.

The lid should be cleaned regularly with a soft cloth or sponge and solution of soap and water to maintain it's ability to seal properly.

## Maintenance - Models 203, 204, 204P, 240, 242, 248, 250, 305 And 307

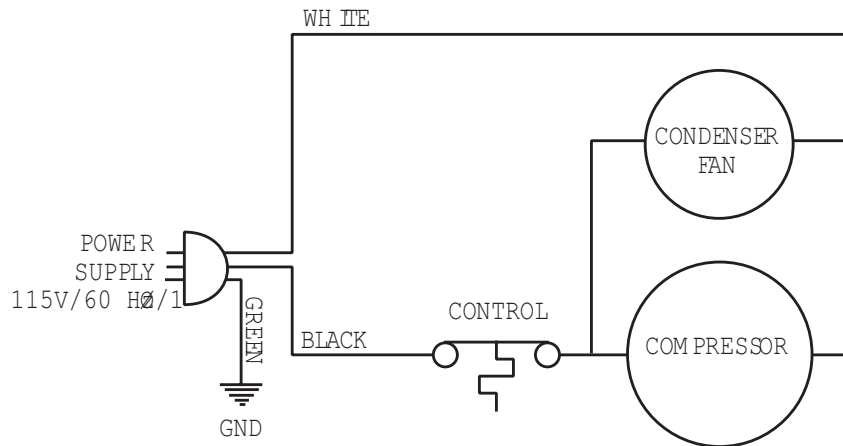
The interior and exterior of these models may be cleaned using soap and warm water. If this is not sufficient, try ammonia and water or a non-abrasive cleaner. Be sure to rinse thoroughly with clean water after using ammonia or a cleaner. When cleaning the exterior, always rub with the "grain" of the stainless steel to avoid marring the finish.



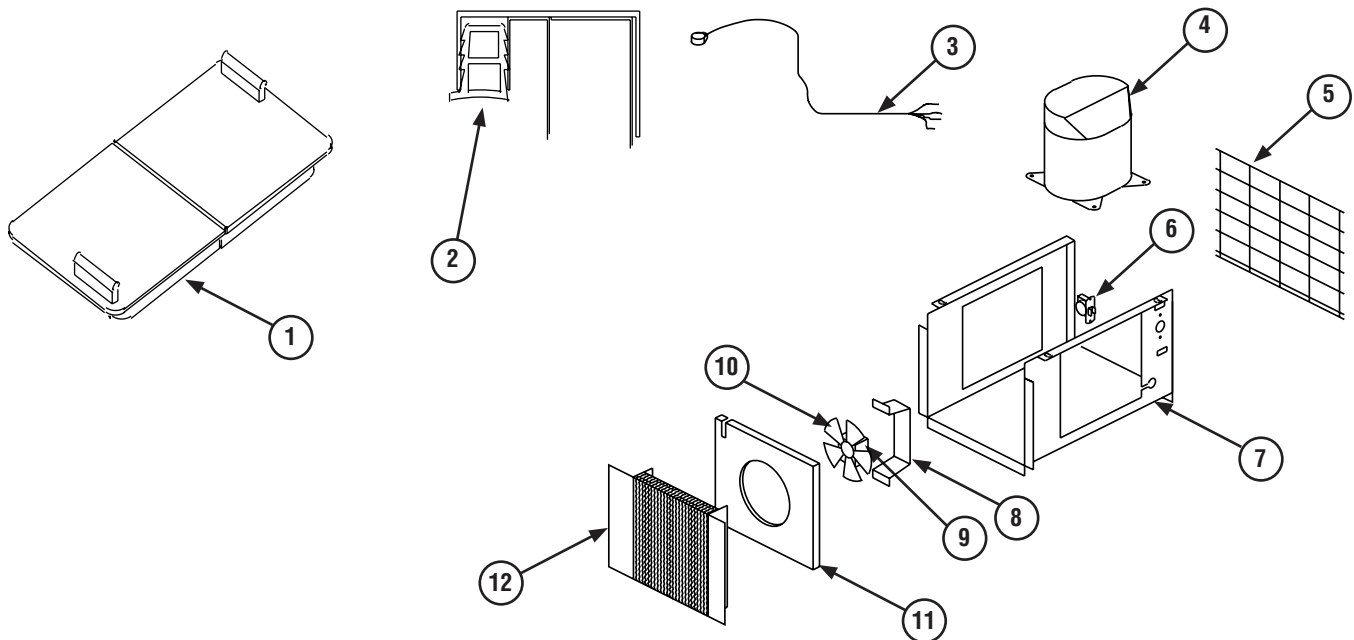
**Do not use an abrasive cleaner. Abrasive cleaners will scratch the stainless steel and plastic.**



## Wiring Diagram - Models N225, N225L, N227 And N227L



## Replacement Parts - Models N225, N225L, N227 And N227L



| Key | Part No.     | Description                     |
|-----|--------------|---------------------------------|
| 1   | 3234188      | Cover (solid)                   |
|     | 3234189      | Cover (see-through)             |
| 2   | 1701273      | Trim gasket                     |
| 3   | 2183349      | Harness, power cord             |
| 4   | 3526996      | 227 Compressor, 1/5 H.P. (404A) |
|     | 3526997      | 225 Compressor, 1/5 H.P. (404A) |
| 5   | 3977986      | Wire fan guard                  |
| 6   | 3516047      | Temperature control             |
| 7   | 024-ADB-0040 | Compressor stand                |
| 8   | 031-264-0000 | Fan motor bracket               |

| Key | Part No.         | Description                         |
|-----|------------------|-------------------------------------|
| 9   | 2162691          | Fan motor                           |
| 10  | 3516172          | Fan blade                           |
| 11  | 026-ANM-0030     | Fan baffle                          |
| 12  | 3516067          | Condensing coil                     |
| -   | 3516287          | High pressure switch                |
| -   | 3516191          | Filter dryer                        |
| -   | 2194787          | Start capacitor                     |
| -   | 3516446          | Compressor relay                    |
| -   | 359-411-0003     | Louvered panel (cutout 12" x 23.5") |
| -   | Purchase locally | Capillary tube, .031" i.d. 120"     |

## Replacement Parts

### Model 203

|              |                           |
|--------------|---------------------------|
| 000-AUO-0030 | Removable lid with handle |
| 3234110      | Lid handle                |
| 9321011      | Lid handle screw          |
| 3234242      | Drain                     |



### Models 204 And 204P

|              |  |
|--------------|--|
| 3234088      | Glass filler 9.5" high, max. ht glass 8"       |
| 3234303      | Pitcher filler 13.5" high, max. ht pitcher 12" |
| 3234242      | Drain (ice chest and water filler)             |
| 000-AUO-0030 | Removable lid with handle                      |
| 3234110      | Lid handle                                     |
| 9321011      | Lid handle screw                               |
| 3977953      | Guard  |



### Model 240

|              |                   |
|--------------|-------------------|
| 000-AUO-0001 | Removable lid     |
| 3234110      | Lid handle        |
| 9321011      | Lid handle screws |
| 3234242      | Drain             |



### Model 242

|         |                 |
|---------|-----------------|
| 3234007 | Basket Strainer |
| 3234076 | Faucet          |



### Model 248

|              |                  |
|--------------|------------------|
| 3977953      | Guard            |
| 3234088      | Glass filler     |
| 3234242      | Drain            |
| 000-AUO-0030 | Removable lid    |
| 3234110      | Lid handle       |
| 9321011      | Lid handle screw |



### Model 250

|              |                  |
|--------------|------------------|
| 3234007      | Basket strainer  |
| 3234076      | Faucet           |
| 000-AUO-0030 | Removable lid    |
| 3234110      | Lid handle       |
| 9321011      | Lid handle screw |
| 3234088      | Glass filler     |
| 3234242      | Drain            |
| 3977953      | Guard            |



### Model 305

|              |                  |
|--------------|------------------|
| 3234242      | Drain            |
| 000-AUO-0030 | Removable lid    |
| 3234110      | Lid handle       |
| 9321011      | Lid handle screw |



### Model 307

|         |  |
|---------|--|
| 3234088 | Glass filler 9.5" high, max. ht glass 8" |
| 3977953 | Guard                                    |
| 3234242 | Drain                                    |



## Standard Labor Guidelines To Repair Or Replace Parts On Delfield Equipment

Advice and recommendations given by Delfield Service Technicians do not constitute or guarantee any special coverage.

- A maximum of 1-hour is allowed to **diagnose a defective component**.
- A maximum of 1-hour is allowed for **retrieval of parts** not in stock.
- A maximum **travel distance** of 100 miles round trip and 2-hours will be reimbursed.
- Overtime, installation/start-up, normal control adjustments, general maintenance, glass breakage, freight damage, and/or correcting and end-user installation error will not be reimbursed under warranty unless pre-approved with a **Service Work Authorization** from Delfield. You must submit the number with the service claim.

### Labor Of 1-Hour Is Allowed To Replace:

- Compressor Start Components and Overload Protector
- Condenser Fan Motor and Blade
- Thermostat

### Labor Of 2 Hours To Replace:

- Locate/Repair Leak
- High Pressure Switch

### Labor Of 3 Hours To Replace:

- Condenser Coil
- Capillary Tubing

### Labor Of 4 Hours To Replace:

- Compressor

This includes recovery of refrigerant and leak check.

\$55.00 maximum reimbursement for refrigerant recovery (includes recovery machine, pump, torch, oil, flux, minor fittings, solder, brazing rod, nitrogen, or similar fees.)

### Refrigerants:

- R404A A maximum of \$15.00/lb. or \$1.00/oz. will be reimbursed.



***Mt. Pleasant, MI***



***Covington, TN***

*Thank you for choosing Delfield!*

Help is a phone call away. Help our team of professional, courteous customer service reps by having your model number and serial number available at the time of your call (800) 733-8829.

Model: \_\_\_\_\_ S/N: \_\_\_\_\_

Installation Date: \_\_\_\_\_



For a list of Delfield's authorized parts depots,  
visit our website at [www.delfield.com](http://www.delfield.com)

Register your Delfield warranty  
online. Go to [www.delfield.com](http://www.delfield.com)  
under the service tab to complete.

